

List of All Chemicals

P Sterculia urens (Sterculiaceae)

Common name(s)

Karaya

How used

GRAS

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Part | All | Low PPM | High PPM | StdDev | *Reference |
|---|------|-----|--|----------|--------|----------------------------|
| ACETIC-ACID | Gum | -- | -- | -- | -- | * |
| Activities (16) | | | | | | |
| Acidulant | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antibacterial 5,000 ppm | | | | | | |
| Antioticic | | | Martindale's 28th | | | |
| Antisalmonella | | | | | | |
| Antivaginitic 1-2% | | | | | | |
| Expectorant | | | Martindale's 28th | | | |
| Fungicide | | | Martindale's 29th | | | |
| Keratitigenic | | | | | | |
| Mucolytic | | | Martindale's 29th | | | |
| Osteolytic | | | | | | |
| Perfumery FEMA 6,000-40,000 ppm | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | |
| Pesticide | | | | | | |
| Protisticide | | | Martindale's 29th | | | |
| Spermicide | | | Martindale's 28th | | | |
| Ulcerogenic | | | HerbalGram No. 20, page 9. | | | |
| Verrucolytic | | | | | | |
| ALPHA-CELLULOSE | Wood | -- | 239248.0 | -1.73 | -- | * |
| ASH | Gum | -- | 59200.0 | 1.0 | -- | * |
| BETA-D-GALACTOSE | Gum | -- | -- | -- | -- | * |
| BETULIN | Bark | -- | 50.0 | -0.4 | -- | Jim Duke's personal files. |
| Activities (13) | | | | | | |
| AntiHIV 6.1 uM | | | | | | |
| Anticarcinomic | | | | | | |
| Antifeedant | | | | | | |
| Antiflu | | | | | | |
| Antiinflammatory | | | Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from <i>Diospyros leucomelas</i> *. <i>Planta Medica</i> , 61: 9. | | | |
| Antitumor | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antiviral 6.1 uM | | | | | | |
| Aphidifuge | | | Lugemwa, F.N., Huang, F-Y., Bentley, M.D., Mendel, M.J., and Alford, A.R. 1990. A <i>Heliothis zea</i> Antifeedant from the Abundant Birchbark Triterpene Betulin. <i>J. Agric. Food Chem.</i> 38(2): 493-494. | | | |
| Cytotoxic 600 ppm | | | | | | |
| Cytotoxic 8.6 uM | | | | | | |
| Hypolipemic | | | | | | |
| Prostaglandin-Synthesis-Inhibitor IC50=119 uM | | | Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from <i>Menyanthes trifoliata</i> L. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626. | | | |
| Topoisomerase-II-Inhibitor IC50=38.6 uM | | | | | | |
| CARBOHYDRATES | Seed | -- | 280000.0 | -0.97 | -- | * |

| | | | | | |
|---------------------|------|----------|----------|-------|---|
| D-GALACTOSE | Gum | -- | -- | | * |
| D-GALACTURONIC-ACID | Gum | -- | -- | | * |
| D-GLUCURONIC-ACID | Gum | -- | -- | | * |
| FAT | Seed | 200000.0 | 260000.0 | -0.03 | * |
| FAT | Gum | -- | 2800.0 | | * |
| FIBER | Gum | -- | 4100.0 | | * |

Activities (15)

| | |
|------------------------------|--|
| Angiotensin-Receptor-Blocker | |
| Antidiabetic | |
| Antihypertensive | |
| Antiobesity | |
| Antitumor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Blocker | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic | |
| Hypotensive 10 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypouricemic | |
| Laxative | |
| Vasodilator | |

| | | | | | |
|----------|-----|----|----------|--|---|
| FURFURAL | Gum | -- | 123000.0 | | * |
|----------|-----|----|----------|--|---|

Activities (6)

| | |
|------------------|--|
| Antiseptic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| FLavor FEMA 1-30 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Insecticide | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pesticide | |

| | | | | | |
|-----------|-----|----|----|--|---|
| GALACTOSE | Gum | -- | -- | | * |
|-----------|-----|----|----|--|---|

Activities (1)

| | |
|--------------------------|-------------------|
| Sweetener 0.32 x sucrose | Martindale's 28th |
|--------------------------|-------------------|

| | | | | | |
|------------|-----|----|----|--|---|
| L-RHAMNOSE | Gum | -- | -- | | * |
|------------|-----|----|----|--|---|

| | | | | | |
|-----------------|------|--------|--------|-------|---|
| LIGNOCERIC-ACID | Seed | 3740.0 | 4082.0 | -0.04 | * |
|-----------------|------|--------|--------|-------|---|

Activities (1)

| | |
|-----------------|--|
| Antihepatotoxic | |
|-----------------|--|

| | | | | | |
|---------------|------|--------|--------|-------|---|
| LINOLEIC-ACID | Seed | 4840.0 | 6292.0 | -0.86 | * |
|---------------|------|--------|--------|-------|---|

Activities (27)

5-Alpha-Reductase-Inhibitor

AntiMS Economic & Medicinal Plant Research, 6: 189.

Antiacne

Antialopecic

Antianaphylactic

Economic & Medicinal Plant Research, 6: 189.

Antiandrogenic

Antiarteriosclerotic

Antiarthritic

Economic & Medicinal Plant Research, 6: 189.

Anticoronal

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antieczemic

Economic & Medicinal Plant Research, 6: 189.

Antifibrinolytic

Economic & Medicinal Plant Research, 1: 53.

Antigranular

Antihistaminic

Economic & Medicinal Plant Research, 6: 189.

Antiinflammatory IC₅₀=31 uM

Antileukotriene-D4 IC₅₀=31 uM

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antiprostatic

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Cancer-Preventive

Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Carcinogenic

Science News, 146: 421.

Comedolytic

Hepatoprotective

Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Immunomodulator

Economic & Medicinal Plant Research, 6: 189.

Insectifuge

Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Metastatic

Science News, 146: 421.

Nematicide

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Propecic

| | | | | |
|----------|-----|----------|----------|---|
| MUCILAGE | Gum | 700000.0 | 750000.0 | * |
|----------|-----|----------|----------|---|

Activities (3)

Cancer-Preventive

Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Demulcent

Hypocholesterolemic

| | | | | | |
|---------------|------|--------|---------|-------|---|
| MYRISTIC-ACID | Seed | 9300.0 | 12090.0 | -0.14 | * |
|---------------|------|--------|---------|-------|---|

Activities (6)

Antioxidant IC₇₁=60

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Cosmetic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Hypercholesterolemic Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Lubricant Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Nematicide Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

| | | | | | |
|------------|------|----------|----------|------|---|
| OLEIC-ACID | Seed | 133180.0 | 173134.0 | 0.44 | * |
|------------|------|----------|----------|------|---|

Activities (18)

| | |
|----------------------------------|---|
| 5-Alpha-Reductase-Inhibitor | |
| Allergenic | |
| Alpha-Reductase-Inhibitor | |
| Anemiagenic | |
| Antialopecic | |
| Antiandrogenic | |
| Antiinflammatory IC50=21 uM | |
| Antileukotriene-D4 IC50=21 uM | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Choleretic 5 ml/man | |
| Dermatitigenic | |
| FLavor FEMA 1-30 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Merck 11th Edition |
| Percutaneostimulant | Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Propecic | |

PALMITIC-ACID

Seed 35640.0 46332.0 0.26 *

Activities (13)

| | |
|-----------------------------|--|
| 5-Alpha-Reductase-Inhibitor | |
| Antialopecic | |
| Antiandrogenic | |
| Antifibrinolytic | Economic & Medicinal Plant Research, 1: 53. |
| Antioxidant IC40=60 | |
| FLavor FEMA 1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hemolytic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Pesticide | |
| Propecic | |
| Soap | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

PROTEIN

Gum -- 6300.0 *

PROTEIN

Seed -- 350000.0 1.03 *

RHAMNOSE

Gum -- -- *

RIBOFLAVIN

Gum 17.0 31.0 *

Activities (15)

| | |
|--------------------------------------|---|
| AntiLyme 50 mg/day | Martindale's 28th |
| Antiarabiflavinotic 2-10 mg/day orl | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticarpal-Tunnel 50 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticataract 15 mg/day | |
| Anticephalagic | |
| Anticervicaldysplastic 1.6-10 mg/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticheilitic | |
| Antidecubitic | |
| Antiglossitic | |
| Antikeratitic | |
| Antimigraine | |
| Antioxidant | |
| Antipellagric | |
| Antiphotophobic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |

SCOPOLETIN

Bark

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Activities (44)

| | |
|---|---|
| Aldose-Reductase-Inhibitor IC50=6.2 ug/ml cow | Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation.Chem Pharm Bull43(8):1385-1387 |
| Allelochemical IC89=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Analgesic | |
| Anesthetic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Antidiadrenergic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Antiaflatoxin IC50=65 uM | |
| Antiaflatoxin 11.4 ppm | |
| Antiarrhythmic | |
| Antiasthmatic | |
| Antibacterial | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antibronchoconstrictor | |
| Anticholinergic | |
| Antiedemic | |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antihepatotoxic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Antiinflammatory ED 1-10 ug/year | |
| Antileukotrienogenic | |
| Antimutagenic | Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh. |
| Antioxidant | |
| Antiproliferant | |
| Antiprostaglandin | |
| Antiseptic | |
| Antispasmodic | |
| Antitumor 2.9 ug/ml | |
| Apoptotic | |
| Bronchorelaxant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| CNS-Depressant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| CNS-Stimulant | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cholagogue | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Choleretic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Cytotoxic | |
| Fungicide 2 mM | |
| Hepatoprotective | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Herbicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Hypoglycemic | Economic & Medicinal Plant Research, 6: 165 |
| Hypotensive | |
| MAO-Inhibitor | |
| Musculotropic | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Myorelaxant | |
| Pesticide | |
| Phytoalexin | |
| Phytohormonal | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Uterosedative | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |

STEARIC-ACID

Seed

4020.0

5226.0

-0.45

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Activities (8)

| | |
|-----------------------------|--|
| 5-Alpha-Reductase-Inhibitor | |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 2-4,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Propecic | |
| Suppository | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

Activities (35)

| | |
|---|--|
| Anthelmintic | |
| AntiHIV | |
| Antibacterial | |
| Anticancer | |
| Anticariogenic | |
| Antidiarrheic | |
| Antidysenteric | |
| Antihepatotoxic | |
| Antihypertensive | |
| Antilipolytic | |
| Antimutagenic | |
| Antinephritic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiophidic | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC50=1.44 ug/ml | |
| Antioxidant 1/3 quercetin | |
| Antiradicular 500 mg/kg/day orl mus | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiradicular 1/3 quercetin | |
| Antirenitic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antitumor | |
| Antitumor-Promoter | |
| Antiulcer | |
| Antiviral | |
| Cancer-Preventive | HerbalGram No. 22 - Spring 1990, page 14. |
| Carcinogenic | |
| Chelator | |
| Cyclooxygenase- Inhibitor | |
| Glucosyl- Transferase-Inhibitor | |
| Hepatoprotective | |
| Immunosuppressant | |
| Lipoxygenase- Inhibitor | |
| MAO-Inhibitor | |
| Ornithine- Decarboxylase- Inhibitor | |
| Pesticide | |
| Psychotropic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Xanthine-Oxidase- Inhibitor | |

Activities (35)

| | |
|---|--|
| Anthelmintic | |
| AntiHIV | |
| Antibacterial | |
| Anticancer | |
| Anticariogenic | |
| Antidiarrheic | |
| Antidysenteric | |
| Antihepatotoxic | |
| Antihypertensive | |
| Antilipolytic | |
| Antimutagenic | |
| Antinephritic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiofidic | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC50=1.44 ug/ml | |
| Antioxidant 1/3 quercetin | |
| Antiradicular 500 mg/kg/day orl mus | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiradicular 1/3 quercetin | |
| Antirenitic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antitumor | |
| Antitumor-Promoter | |
| Antiulcer | |
| Antiviral | |
| Cancer-Preventive | HerbalGram No. 22 - Spring 1990, page 14. |
| Carcinogenic | |
| Chelator | |
| Cyclooxygenase- Inhibitor | |
| Glucosyl- Transferase-Inhibitor | |
| Hepatoprotective | |
| Immunosuppressant | |
| Lipoxygenase- Inhibitor | |
| MAO-Inhibitor | |
| Ornithine- Decarboxylase- Inhibitor | |
| Pesticide | |
| Psychotropic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Xanthine-Oxidase- Inhibitor | |

| | | | | |
|-------------|-----|----------|----------|---|
| URONIC-ACID | Gum | -- | 319100.0 | * |
| WATER | Gum | 120000.0 | 240000.0 | * |